

## M 5.9, 61 km E of Port Alsworth, Alaska

Origin Time: 2021-12-21 22:42:14 UTC (Tue 13:42:14 local)

Location: 60.1711° N 153.3887° W Depth: 147.1 km

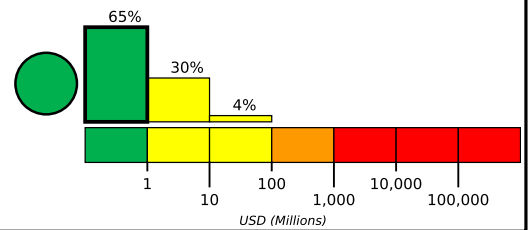
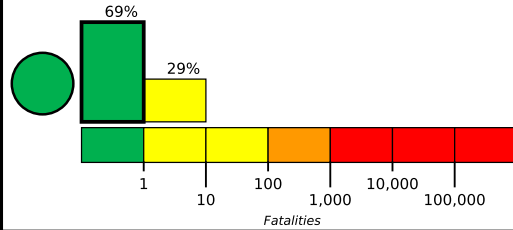
FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)

Created: 1 day, 0 hours after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

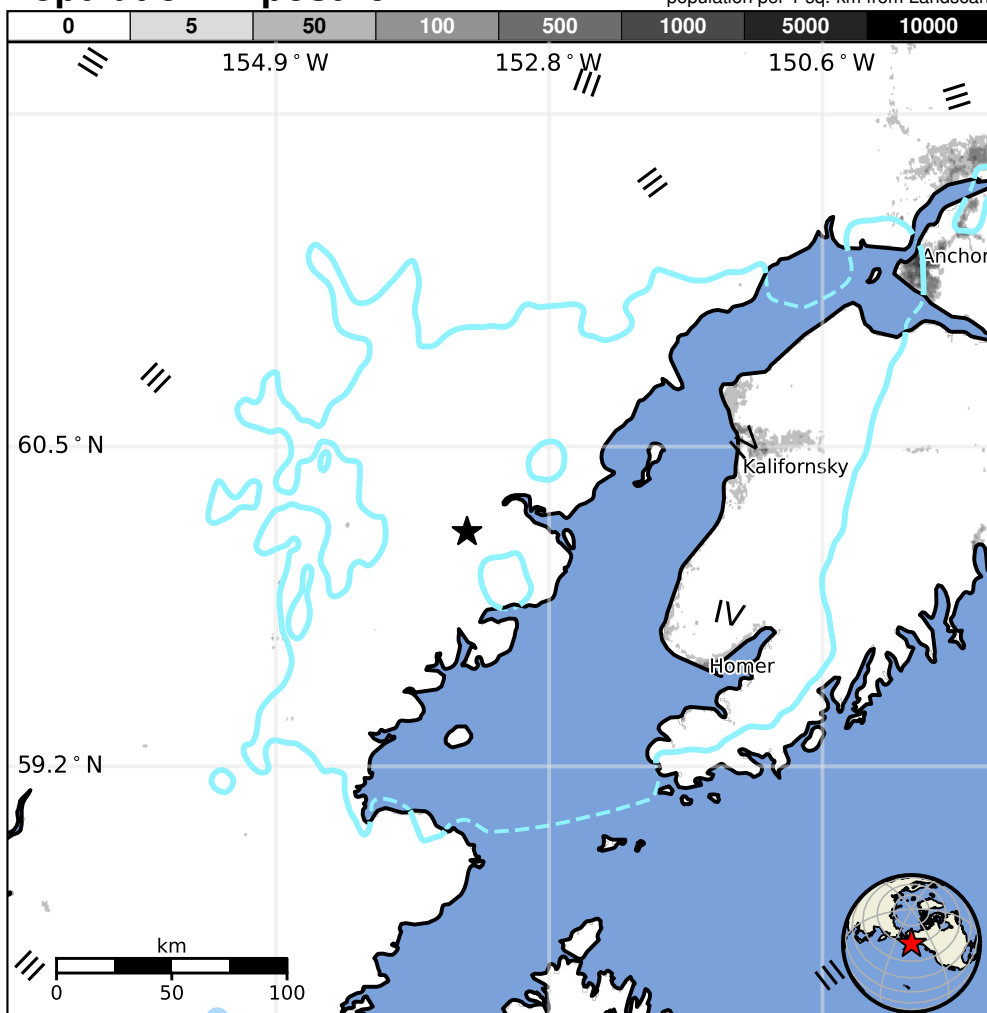


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	189k*	232k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1999-12-06	320	7.0	V(13k)	—
1964-03-28	328	9.2	VIII(24k)	—
1964-03-28	328	9.2	VIII(24k)	0

## Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Diamond Ridge	1k
IV	Soldotna	4k
IV	Homer	5k
IV	Fritz Creek	2k
IV	Cohoe	1k
IV	Nikiski	4k
IV	Kalifornsky	8k
IV	Anchorage	292k
IV	Eagle River	25k
III	Tanaina	8k
III	Knik-Fairview	15k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/ak021gbh4rso#pager>

bold cities appear on map.

(k = x1000)

Event ID: ak021gbh4rso